

Planiprep RMP

Moisture-Resistant, Fast-Drying, Ramping
Compound



DESCRIPTION

Planiprep® RMP is a fast-drying, cement-based, fiber-reinforced, polymer-modified compound designed for large area repairs and ramping between differing planes of flooring. Its unique ability to be mixed with various amounts of water makes it perfect for creating ramps and other shapes without sagging. *Planiprep RMP* is designed for use on high-moisture concrete substrates without the need for moisture mitigation.

FEATURES AND BENEFITS

- Shapeable material
- Fast-drying

WHERE TO USE

- For ramping, smoothing and repairing of suitable substrates in both interior and exterior applications

LIMITATIONS

- Do not install over any flooring products or adhesives, or over substrates containing asbestos.
- Do not use in thicknesses greater than 2" (5 cm).
- Do not use as a final wear surface. *Planiprep RMP* must be covered with a finished floor system.

- Install only in temperatures between 50°F and 90°F (10°C and 32°C). For installing in temperatures above 90°F (32°C), follow American Concrete Institute (ACI) hot-weather application guidelines to ensure a successful installation.
- Do not install over moving control joints (with active cracks) or over expansion joints.
- Do not install over sheet vinyl; self-stick vinyl tile; luxury vinyl tile/plank (LVT/LVP); glue-down wood flooring; particleboard; hardboard (Masonite); Lauan panels; waterproofing, crack-isolation or sound-control membranes; gypsum-based patching materials; or any other non-dimensionally stable materials.
- Do not install if the maximum allowable deflection of the supporting surface exceeds $L/360$ (or $L/720$ for installations involving natural stone or their agglomerates) when exposed to live or dead loads.
- Do not use in areas subject to water immersion. Contact MAPEI's Technical Services Department for waterproofing recommendations.
- Do not use as a moisture-mitigation product. Cement-based patching compounds do not reduce moisture vapor transmissions emanating from high-moisture concrete slabs. If the flooring or installation system requires protection from elevated moisture levels, moisture mitigation must be done before the patching compound is installed. Contact MAPEI's Technical Services Department for moisture-mitigation recommendations.

SUITABLE SUBSTRATES

- Porous concrete (at least 28 days old)
- Abraded and porous cement terrazzo
- Exterior-grade plywood and other approved wood substrates (per the flooring manufacturer's recommendations)
- Cement-based self-leveling underlayments and patching compounds

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrates should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete substrate must have some open porosity; it should have an ICRI concrete surface profile (CSP) of #1.
- On dense, polished or nonporous concrete, the use of a textured primer such as *Primer X™* or *ECO Prim Grip™* is required.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

General mixing

Measure and pour the required amount of cool, clean, potable water as shown below into a clean mixing vessel. For best results, the water temperature should be approximately room temperature (73°F or 23°C). Do not overwater.

1. Pour 1 part of water into a clean pail.
2. Add 3.5 to 4 parts of *Planiprep RMP* while slowly stirring.
3. Mix with a drill (at about 600 to 900 rpm) to a homogenous, lump-free consistency for 1 to 2 minutes. Do not overmix.
4. Do not mix more material than can be applied in up to 15 minutes, depending on temperature and humidity, and do not overwater.

PRODUCT APPLICATION

Read all instructions thoroughly before installation. Before application, test *Planiprep RMP* on a small sample area to ensure the desired results.

1. Immediately after mixing, place *Planiprep RMP* onto the surface and work it in with a flat-edge steel trowel.
2. Trowel to the desired shape and surface finish shortly after placement.

CURING AND PROTECTION

- *Planiprep RMP* is self-curing. Do not use damp-curing methods or curing compounds.
- Avoid walking on the installed surface for at least 2 to 3 hours after installation, depending upon temperature and humidity conditions.
- Do not expose *Planiprep RMP* to rolling dynamic loads, such as forklifts or scissor lifts, for at least 12 hours after installation.

CLEANUP

- Use water to wash hands and tools promptly before the material hardens. Cured material must be mechanically removed.

Product Performance Properties

Laboratory Tests	Results
pH (wet)	About 11
Density	115 lbs. per cu. ft. (1.85 kg per L)
Compressive strength – ASTM C109 (modified)	
4 hours	> 2,000 psi (13.8 MPa)
28 days	4,250 psi (29.3 MPa)

Flexural strength – ASTM C348 (modified)	
28 days	≥ 855 psi (5.90 MPa)
Pullout strength	
28 days	> 215 psi (1.48 MPa)
VOC content	0 g per L

Shelf Life and Product Characteristics

before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area
Physical state	Powder
Color	Light gray

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

at 73°F (23°C) and 50% relative humidity

Mixing ratio of water per <i>Planiprep PMP</i> powder	2.65 to 2.85 U.S. qts. per 25 lbs. (2.51 to 2.70 L per 11.3 kg); 5.3 to 5.9 U.S. qts. per 50 lbs. (5.02 to 5.58 L per 22.7 kg)
Application temperature range	50°F to 90°F (10°C to 35°C)
Application thickness	Featheredge to 2" (5 cm)
Working time	< 15 minutes
Final set (for light foot traffic)	30 minutes at 2" (5 cm) thickness
Ready for installation of floor coverings	90 minutes at 2" (5 cm) thickness

Packaging

Size
Bag: 25 lbs. (11.3 kg)
Bag: 50 lbs. (22.7 kg)

Approximate Coverage*

	Per 25 lbs. (11.3 kg)	Per 50 lbs. (22.7 kg)
Volume	0.3 cu. ft. (0.0085 m ³)	0.6 cu. ft. (0.017 m ³)
Area	25.6 sq. ft. (2.38 m ²) at 1/8" (3 mm) 1.6 sq. ft. (0.15 m ²) at 2" (5 cm)	51.2 sq. ft. (4.76 m ²) at 1/8" (3 mm) 3.2 sq. ft. (0.30 m ²) at 2" (5 cm)

*Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied, and application methods used.

ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

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For the most current product data and BEST-BACKEDSM warranty information,
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